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# AGRICULTURAL LIBRARIES INFORMATION NOTES

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## ANIMAL WELFARE IS THRUST OF NEW INFORMATION CENTER

Animal welfare is the subject of NAL's newest information center designed to provide proactive information services on current issues of concern to government and the public. With an estimated 17-22 million animals used in laboratories annually in the United States, public interest in animal welfare has sparked an often emotional debate over such uses of animals.

Animal welfare denotes concern by human beings for the health, living conditions, and general well-being of animals. It is focused particularly on the humane care and treatment of animals to meet human needs. Over the years, animal welfare concerns have resulted in laws and regulations governing standards in areas such as feed and rest for livestock transported to market, humane slaughter for meat animals, and humane care and treatment for animals in the wholesale pet trade, zoos and circuses, and research laboratories.

The impetus behind the formation of the Animal Welfare Information Center (AWIC) was provided, in part, by an amendment to the Animal Welfare Act which calls for the establishment of an information service at NAL. Under this act, NAL is charged with establishing a service which will provide information pertinent to employee training including maintenance of a database of instructional materials for use by research facilities to enhance uniformity of training. Such information also will be designed to help prevent unintended duplication of animal experimentation and to encourage

adoption of improved methods of animal experimentation including those which could reduce or replace animal use and minimize pain and distress.  
(cont'd on p. 4)



USDA/APHIS animal care specialist inspecting a dog breeding facility in the mid-west. APHIS inspectors check for sanitation, adequate size of pens, and other signs of humane treatment to assure compliance with the Animal Welfare Act. NAL's new information center will lend support in this effort. (APHIS Photo)

## PROFILE: THE PRIMATE INFORMATION CENTER

*With the establishment of an Animal Welfare Information Center at the NAL, the identification of key organizations and bibliographic services providing information about animal protection issues will be emphasized. The following article reports on a valuable resource for tracking primatological research literature. Future issues of ALIN will feature other such centers.*

The 1985 amendment to the Animal Welfare Act has given new impetus to the efforts to prevent duplicative research and improve the care of laboratory animals, particularly of nonhuman primates.

The fact that primatology is not a singular discipline but involves a great range of biomedical, behavioral, ecological, and anthropological research means that the literature on nonhuman primates is scattered in a multitude of journals. Journals that deal solely with nonhuman primate research, such as the American Journal of Primatology, International Journal of Primatology, Journal of Medical Primatology, and Primates, comprise only about six percent of the 5,000 articles and proceedings abstracts published annually in this field.

None of the comprehensive bibliographic services alone casts a net broad enough to capture more than a fraction of the citations pertinent to primatologic research. The Primate Information Center (PIC), established in 1963 as a division of the Regional Primate Research Center at the University of Washington, maintains a computerized, indexed database of the primatological literature. With 80,000 entries since 1940 it is the world's most comprehensive source of bibliographic information in that area.

The PIC obtains the majority of candidate citations from the nine bibliographic services that cover reasonable fractions of the primate research literature, including MEDLARS, ASCA, and BIOSIS. These are supplemented by the PIC staff's own search of book chapters. A copy of each publication is obtained and scanned for its pertinence to research

on nonhuman primates. Articles focusing on Primates of the Church of England or Vatican are screened out, as are citations picked up, because the author is a Mr. Gibbon. A literature analyst with professional speciality in the biomedical behavioral sciences indexes the pertinent articles using a PIC-developed thesaurus of nearly 4,000 indexing terms. Out of the average monthly accession of 450 new citations, less than 50 percent are captured by any one of the larger primary services.



**Macaca nemestrina, the pigtail macaque, was developed at the Regional Primate Research Center as a laboratory animal. In Malaysia it is trained to harvest coconuts. (Primate Info. Center Photo)**

The PIC offers a degree of taxonomic precision in retrieval that larger bibliographic services are not designed to achieve. The nonhuman primates, ranging from the pygmy marmoset of a few ounces to the gorilla,



are as diverse in physiology, genetics and behavior as they are in size. The ability to retrieve citations with accurate specification of the type of animal is often essential. The PIC indexing thesaurus allows taxonomic description of 13 families, 50 genera, and 253 species of primate, whereas the second most inclusive bibliographic service indexes only seven families, 19 genera, and five species. The nomenclature can be baffling: a primate may be referenced in the literature by numerous names; the tamarin (*Saguinus fuscicollis*), for example, has 27 synonyms.

A third significant difference in function between the PIC and larger bibliographic services is that the literature analysts are responsible for both indexing and retrieval, for consultation with clients and for the preparation of bibliographies. By indexing the literature, the analysts learn of new research developments in ways that directly benefit clients. From personal knowledge, they are able to advise a client on the time period from which to request a bibliography. By recognizing publishing trends in particular areas, they are able to develop topical bibliographies that meet the immediate needs of large numbers of investigators.


The PIC offers four types of bibliographic service at low fees to libraries, investigators, students, and others with interests in nonhuman primates, either as models for the human being or for themselves. Response time is rapid, with bibliographies usually mailed the same day that an inquiry is received by telephone or mail. The most popular product is the Topical Bibliography, i.e., a compilation of 50 to 400 citations relating to a unique topic of current interest. The topics are as diverse as housing methods, environmental enrichment, postnatal growth, methods for captive breeding, prenatal brain development, sibling interactions, hemodynamics of conscious primates, comparative drug metabolism, and simian retroviruses. More than 100

titles are in print with new ones added almost monthly. An archive of the entire primatological literature, either in hard copy or on microfilm, allows the literature analyst to review the original publications referenced by citations obtained through computerized retrieval. Each topical bibliography has a species index and some have indexes to sub-topics. The low price, usually \$6.50, enables an economical response to the questions most frequently asked; approximately 2,000 topical bibliographies are sold each year.

The Retrospective Bibliography service is designed to meet the needs of individual investigators on a one-time basis. Like the topical bibliography, it can cover a time period back to 1940, and specify a given species, genus or family. Monthly Custom Bibliographies are prepared on a subscription basis. They provide a monthly update of literature on a given topic. They too are designed to meet the needs of a given individual laboratory.

Current Primate References is a current awareness service published monthly and offered by subscription. All new citations obtained by the PIC are entered into a standardized list of 48 topic headings. Except for proceedings abstracts, each citation is accompanied by the author's address to enable readers to request reprints and there are indexes to the primate species and names of all authors.

Twenty-five years ago it was recognized that access to a very diverse literature was necessary for sound primate husbandry, clinical care of primates, and the effective use of primates in biomedical and behavioral research. The Division of Research Resources of the National Institutes of Health funded the PIC to facilitate that access at a time when the concept of an animal-oriented, computerized bibliographic service, available to remote users in dozens of disciplines was unique. Time has confirmed the prescience of that decision.

Further information about services of the PIC is available on request. Call or write: Primate Information Center, University of Washington, SJ-59, Seattle, Washington, 98195, (206) 543-4376. 


## LIVESTOCK HEALTH AND SHIPMENT RULES AVAILABLE ON ELECTRONIC INFO SYSTEM

International animal health regulations as well as regulations on interstate livestock shipments are available electronically from the USDA.

"This means that by accessing USDA's online system, you can find out what must be done before you can send a hog from Nebraska to China," said Bert W. Hawkins, administrator of USDA's Animal and Plant Health Inspection Service. "And you can be sure you have the latest word on all requirements and regulations, since the electronic system is updated on a weekly basis."

The new information system is known formally as the International Regulations Retrieval System (IRRS). It complements the State Regulations Retrieval System (SRRS), which was inaugurated in 1985. The information on interstate and international animal shipment regulations contained in the systems is useful to farmers, ranchers, agricultural lenders, educators and grain merchandisers.

In the past, these parties had to rely on a hard-cover manual of regulations. Hawkins said that because the manual was published every 5 years, it was seldom up-to-date. "Regulations sometimes changed even before the manual was distributed. Written updates were prepared, but the information never really remained completely current."

Getting information from IRRS or SRRS doesn't require any special knowledge about computers. The regulatory information available from these systems complements general information offered by the USDA's Animal Health Information Database. All three systems can be accessed by contacting Russell Forte, Office of Information, U.S. Department of Agriculture, Washington, D.C. 20250, telephone (202) 447-5505. 

(cont'd from p. 1)


A 1-year, \$750,000 appropriation transferred to NAL from the USDA Animal and Plant Health Inspection Service (APHIS) will provide initial funding for the Center. These funds will be used to support collection development, the production of various information products and outreach activities and will enhance access to animal welfare materials.

According to AWIC coordinator Elizabeth Goldberg, an aggressive collection building process is underway. Acquisitions will include practical and research materials focusing on humane care, treatment, and use of warmblooded animals in biomedical research, testing, exhibition, transportation, and alternatives to the use of live animals in research such as in vitro methods and computer modeling. The identification of instructional training materials--course syllabuses, tutorials, procedural manuals, audiovisuals, and computer software is being emphasized.

For ease of retrieval, a new heading--"Animal Testing Alternatives"--will be used in AGRICOLA to index books, articles, and audiovisual materials that describe lab procedures "used or advocated for use in place of procedures requiring live animals." This is the same term being used by the National Library of Medicine's catalogs and computer databases.

In related activities, a serials list of core journals dealing with procedures and practices in animal welfare is being compiled. Annotated bibliographies, fact sheets, and other information products on such topics as analgesia, euthanasia, use of pound vs purpose-bred animals, and lab animal husbandry are being considered, as are various resource directories, legislative histories, and trainer kits.

AWIC staffing resources will be augmented shortly with a graduate assistant in animal science and possibly a visiting scholar. As AWIC begins to take shape in the upcoming months, ALIN readers will be kept abreast of progress on these and other activities.

For further information, write the Animal Welfare Information Center, Rm. 111, NAL. 



## NAL ESTABLISHES USER FEE POLICY

A new policy of charging for extended information and research services was instituted on January 1.

In accordance with this policy, most categories of users--with the exception of U.S. Department of Agriculture personnel--will be billed for information support services in excess of the threshold level. Threshold level service is defined as 1 hour of staff time or \$25.00 in computer usage costs.

"The new fee program will allow a broader spectrum of users to utilize our reference-research services than was previously possible," NAL director Joseph H. Howard said. "In the past--largely due to budgetary constraints--comprehensive indepth reference assistance was reserved for USDA personnel and other select audiences."

The policy establishing user fees was published in the Federal Register vol. 49, no. 179, September 13, 1984, page 35929.

### User Categories

Reference services are provided to users, subject to staff availability, as follows:

U.S. Department of Agriculture staff, Congressional and White House staff, other Federal staff, recipients designated by legislation, and U.S. libraries are provided with a full range of reference services without charge.

U.S. state and local agencies including state experiment stations and extension services, U.S. individuals including college and university students and faculty who have made full use of their local, state and/or university resources can receive services up to the threshold level without charge. Services beyond the threshold level are provided for a fee.

U.S. high school and elementary students who have made full use of their local, state and/or university resources can receive services up to the threshold level without charge if the request is accompanied by a written request from the instructor/teacher. Services beyond the threshold level are provided for a fee.


All organizations, societies, institutions, and businesses including contractors, both foreign and domestic, are provided services up to the threshold level without charge. Services beyond the threshold level are provided for a fee.

Libraries and individuals in other countries are provided service up to the threshold level without charge. Services beyond the threshold level are provided for a fee.

### Fee Structure

#### Reference Services beyond threshold level:

Professional time	- \$11.00 per hour or portion thereof
Support time	- \$5.50 per hour or portion thereof
Computer costs	- vary according to the database(s) searched, time spent online, and the number of references printed. Charges are for telecommunications linkages, direct online costs and for the offline prints, if any.
Processing fee	- \$10.00 per request--this is in addition to the above charges.

Billing and collection will be done by the U.S. National Technical Information Service on a quarterly basis. For further information contact Jennie Brogdon, Head, Economics and Marketing Reference Branch, Rm. 111, (301) 344-3704. 



## INFORMATION CENTERS...

### ...WHAT'S NEW

#### AQUACULTURE CENTER

##### AQUAREF

A small-scale expert system that provides references to appropriate sources of aquaculture information is now available free-of-charge from NAL. The expert system called **AquaRef**, is stored on a floppy diskette and runs on an IBM or compatible microcomputer. For a copy with documentation, send a double-sided, double-density diskette, formatted in DOS to:

NAL, Aquaculture Information Center  
10301 Baltimore Blvd., Rm. 111  
Beltsville, MD 20705  
Attn: AquaRef

#### Upcoming Meetings:

Feb. 18-20: The California Aquaculture Association 1987 Conference. Queen Mary Hotel, Long Beach, CA. Contact: Fern Ray, California Aquaculture Association, P. O. Box 1004, Niland, CA 92257. (619) 348-0547.

May 1-2: 1st Louisiana Aquaculture Conference and Trade Show. Hilton Hotel, Baton Rouge, LA. Contact: Dr. Gary Jensen or Larry de la Brettone, Louisiana Cooperative Extension Service, LSU, 202G Knapp Hall, Baton Rouge, LA 70803. (504) 388-2152.


June 2-5: Aquaculture Europe '87, an International Aquaculture Conference and Exhibition. Amsterdam, The Netherlands. Contact: EAS Secretariat, Prinses Elisabethlaan 69, B8401 Bredene, Belgium.

June 28-July 1: 1987 ASAE Summer Meeting. Baltimore Convention Center, Baltimore, MD. Contact: Meetings Manager, ASAE Headquarters, 2950 Niles Rd., St. Joseph, MI 49085-9659.

#### Gifts and Acquisitions:

The following video cassettes (available on 3/4" videotape) have been purchased from the Fisheries Academy, USFWS, in Leetown, West Virginia. These audio-visuals are useful training tools for various aquaculture subjects. They can be viewed in-house at NAL upon request. Contact: Special Collections, (301) 344-3876.

1. Fish Marking: Principles & Techniques (Time: 43.5 minutes)
2. Preparing Fish for Shipment to Diagnostic Stations (Time: 16.5 minutes)
3. Measuring Pond Volume (Time: 5.5 minutes)
4. Catfish Culture (Time: 43 minutes)

The staff of the Aquaculture Information Center wish to acknowledge the receipt of complimentary copies of publications and reprints from the **Sea Grant** institutions and their researchers. Your cooperation in developing our collection of aquaculture materials is greatly appreciated. 

#### FOOD IRRADIATION CENTER

The Food Irradiation Information Center has available two new pathfinders and a table-top exhibit in its developing educational program to prepare the public for the arrival of irradiated products on the market.

For professionals, the Center offers a pathfinder on irradiated fruits and one on the safety and wholesomeness of irradiated foods. Educators and journalists should request the teaching level of the safety and wholesomeness pathfinders. Each lists significant resources that were judged



by experts in the field to be accurate, readable, and available. The Center also has materials appropriate for consumers.



**New full-color traveling exhibit is previewed by John Beecher, North Dakota State University, during FIFL.**

A table top exhibit highlighting the purpose of food irradiation and foods most likely to be processed by this method is available for loan. Requests for loan should include the date(s) of the event, type of audience, and theme or topic of the program. Include the name and address of a contact person who will be responsible for the exhibit and the address and phone number for the meeting site. Unless otherwise instructed, approximately 50 copies of each handout will accompany the exhibit.

Arrangements for the exhibit should be made at least 8 weeks in advance of the date of the program. The contact person will be responsible for making the shipping arrangements, returning the exhibit by the specified date, and paying all associated costs. The four-panel exhibit weighs approximately 62 pounds, and the dimensions of the shipping case are 44"x34"x8". For further information contact: Carole J. Shore, NAL, Room 304, (301) 344-3719.



## FIFL '86 FEATURES INFORMATION-PACKED AGENDA



**The NAL conference room is converted into a mini exhibition center for FIFL. Above, Martha Bailey (c.), Purdue Univ., visits the Technical Services display table staffed by Vicky Reich (l.), Head, Acquisitions and Sarah Thomas, Chief, TSD.**

Agricultural librarians once again had the opportunity to exchange information, share mutual concerns, and get better acquainted during the NAL/Land-Grant Librarians Meeting, December 1-2. Held as part of the FIFL (Federal Interagency Field Librarians) Workshop, this year's meeting drew librarians from 31 states.

Day 1, at the Omni Shoreham in Washington, D.C. featured presentations on a broad range of subjects including public services for an agricultural research faculty (Jan Kennedy-Olsen, Cornell University); the use of interactive videodisc technology in extension programs (Mary Miller, Virginia Polytechnic Institute); and farming systems and grain science research at Kansas State University (Brice Hobrock and Vanessa Stubban, KSU) to name a few.

Day 2 brought the FIFL group to Beltsville where a variety of scheduled and free-form opportunities to meet with NAL staff and to learn about NAL activities were the order of the day.


Leslie Kulp, Chief, Collection Development, served as the NAL representative to the FIFL coordination committee.



## NEW BIBLIOGRAPHIES

*Copies of the following bibliographies are available from the National Technical Information Service, 5285 Port Royal Road, Springfield, VA 22161. Telephone: (703) 487-4780.*

**Bibliography of American Agricultural Bibliographies, 1984: A Categorized Listing of American Bibliographies Indexed in AGRICOLA.** Compiled by Charles N. Bebee, Beltsville, MD, U.S. Department of Agriculture, National Agricultural Library. (Bibliographies and Literature of Agriculture Series No. 54.) October 1986, 159 p. \$18.95 (paper) and \$6.50 (microfiche). PB87-129789/AS.

**The Protection of Citrus, 1979-March 1986, Citations from AGRICOLA Concerning Diseases and Other Environmental Considerations.** Compiled and edited by Charles N. Bebee, Beltsville, MD, U.S. Department of Agriculture, National Agricultural Library, and Washington, D.C., U.S. Environmental Protection Agency, Office of Pesticides Programs. (Bibliographies and Literature of Agriculture Series No. 53.) October 1986. 147 p. \$18.95 (paper) and \$6.50 (microfiche). PB87-129771/AS. 

### NEW DIRECTORY

Critical and Strategic Crops Research: A Directory of USDA and State Projects in CRIS is now available from the NTIS. The directory focuses on 11 crops that potentially can provide substitutes for petroleum and other imported agricultural materials used by industry. It was prepared jointly by the staff of the NAL Critical Agricultural Materials Information Center and the CSRS Current Research Information System. Cost \$18.95 (paper) and \$6.50 (microfiche). PB87-116273/AS.

## QUICK BIBLIOGRAPHIES

The bibliographies in this series are primarily computerized online or batch bibliographies emanating from searches performed by the NAL reference staff in response to customer requests. Searches are selected for inclusion based on the currency of the topic, interest among clientele, relative length and probable value to a larger audience. Revisions or updates will be renumbered and reannounced. Only one copy of a title will be sent; however, requesters may make copies. To request a copy of a Quick Bibliography circle desired titles below and send a return addressed label to:

Reference Branches, Room 111  
National Agricultural Library  
Beltsville, MD 20705


NAL--Q.B.--87-01. CHINESE AGRICULTURAL DEVELOPMENT, 1979-JUNE 1986. 160 citations from AGRICOLA. Languages none excluded. Prepared by Charles N. Bebee. October 1986.

NAL--Q.B.--87-02. STRAY VOLTAGE AND ELECTROMAGNETIC RADIATION: EFFECTS ON ANIMALS, JANUARY 1970-JUNE 1986. 105 citations from AGRICOLA. Languages none excluded. Prepared by Sheldon Cheney. October 1986.

NAL--Q.B.--87-03. ALLELOPATHY: THE EFFECTS OF CHEMICALS PRODUCED BY PLANTS, 1982-86. 248 citations from AGRICOLA. Languages none excluded. Prepared by Henry Gilbert. January 1987. Updates 86-05.

NAL--Q.B.--87-04. GROUNDWATER CONTAMINATION, 1983-86. 214 citations from AGRICOLA. Languages none excluded. Prepared by Henry Gilbert. January 1987. Updates 84-54.

NAL--Q.B.--87-05. EDUCATION AND TRAINING IN PLANT SCIENCES, 1979-86. 157 citations from AGRICOLA. Languages none excluded. Prepared by Henry Gilbert. January 1987.

NAL--Q.B.--87-06. TISSUE CULTURE - PLANTS, 1984-86. 233 citations from AGRICOLA. English only. Prepared by Henry Gilbert. January 1987. Updates 86-16. 





## NEW PUBLICATIONS OF NOTE

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AMERICAN COOPERATION 1986. Mary Kay Bidlack, ed. A forum on what U.S. agricultural cooperatives and their leaders are thinking about, acting on, and planning for in the future. 1986. 94 p. \$14.50. Order from American Institute of Cooperation, 50 F Street, N.W., Suite 900, Washington, D.C. 20001. Tel.: (202) 347-1080.

**\*\*ARSENIC AND ARSENICAL PESTICIDES: A BIBLIOGRAPHY OF TECHNICAL PUBLICATIONS ON USES, ENVIRONMENTAL CHEMISTRY AND HEALTH EFFECTS.** Beltsville, MD, U.S. Department of Agriculture, Agricultural Research Service. January 1986. 551 p. (Report No. ARS-44). \$40.95. PB86-199734/XAB.

**\*\*BRDRFLW: A MATHEMATICAL MODEL OF BORDER IRRIGATION.** Phoenix, AZ, U.S. Department of Agriculture, Agricultural Research Service. November 1985. 109 p. (Report No. ARS-29). \$16.95. PB86-159944/XAB.

**\*\*CATALOG OF THE COLEOPTERA OF AMERICA NORTH OF MEXICO. FAMILY: LIMNICHIDAE.** Beltsville, MD, U.S. Department of Agriculture, Agricultural Research Service. January 1986. 19 p. (Report No. AGRICULTURE/HB-529-48). \$9.95. PB86-198181/XAB.

**\*\*\*DIRECTORY OF FEDERAL LIBRARIES.** W.R. Evinger. More than 2,300 entries. Special collections, database services, etc., are included with focus on libraries in all branches of the Federal government. 1986. 228 p. \$65.00.

**\*AN ECONOMIC ANALYSIS OF USDA EROSION CONTROL PROGRAMS: A NEW PERSPECTIVE.** Washington, D.C., U.S. Department of Agriculture, Economic Research Service. Provides information on offsite benefits and the joint conservation and production benefits resulting from

conservation investments, with insights into the nature of the conservation programs. August 1986. 80 p. (Report No. AER-560). \$3.75. S/N 001-019-00448-7.

**\*FARM VIABILITY: RESULTS OF THE USDA FAMILY FARM SURVEYS.** Washington, D.C., U.S. Department of Agriculture, Economic Research Service. Analyzes the financial well-being of farm households in 29 Mississippi and Tennessee counties in 1980 and in 8 Wisconsin counties in 1982. Evaluates both public and private options for easing financial stress. July 1986. 28 p. (Report No. RDRR-60). \$1.50. S/N 001-019-00456-8.

**\*\*FOOD COSTS...FROM FARM TO RETAIL.** Washington, D.C., U.S. Department of Agriculture, Economic Research Service. March 1986. 9 p. \$9.95. PB86-176989/XAB.

**\*\*FORESTERS' PRIMER IN NUTRIENT CYCLING.** Asheville, NC, U.S. Department of Agriculture, Forest Service. 1986. 49 p. PB86-191293/XAB.

**\*GROUND-WATER MINING IN THE UNITED STATES.** Washington, D.C., U.S. Department of Agriculture, Economic Research Service. Defines regions of ground-water mining, including areas and crops irrigated, rates of ground-water decline, and pumping lifts. Also reports probable impact of declining water levels for selected mining areas with respect to higher pumping costs, reduced well yields, and adoption of irrigation technology. August 1986. 24 p. (Report No. AER-555). \$1.25. S/N 001-019-00484-3.

**\*\*GUIDELINES FOR THE CONTROL OF PLANT DISEASES AND NEMATODES.** Beltsville, MD, U.S. Department of Agriculture, Agricultural Research Service. May 1986. 281 p. (Report No. AGRICULTURE/HB-656). \$22.95. PB86-223815/XAB.

**\*HANDBOOK OF ECONOMIC STATISTICS, 1986.** Washington, D.C., Central Intelligence Agency. Provides economic statistics for all Communist and selected non-Communist countries on subjects such as aggregate trends, foreign trade and aid, energy, minerals and metals, agriculture, manufacturing goods, and forestry. 1986. \$19.00. S/N 041-015-00165-5.



HANDBOOK OF NORTHEASTERN INDIAN MEDICINAL PLANTS. James A. Duke. A summary of the medicinal heritage of Amerindian plants including over 500 illustrations. Arranged alphabetically by scientific name with an index to common names, an index to medical ailments, and a reference section. 1986. 212 p. \$30.00. Order from Quarterman Publications, Inc., P.O. Box 156, Lincoln, MA 01773.


**\*\*NEW ECONOMIC VALUE OF COLD AND WARM WATER FISHING IN IDAHO.** Fort Collins, CO, U.S. Department of Agriculture, Forest Service. November 1985. 32 p. (Report No. FSRB-RM-11). \$9.95. PB86-161106/XAB.

**\*\*PESTICIDE RESISTANCE: STRATEGIES AND TACTICS FOR MANAGEMENT.** Washington, D.C. U.S. Department of Agriculture and Environmental Protection Agency. April 1986. 481 p. \$34.95. PB86-200144/XAB.

PESTS, DISEASES, AND AILMENTS OF AUSTRALIAN PLANTS. D. Jones and R. Elliot. Specializes in description and illustration of pests, diseases, and ailments with emphasis on natural rather than chemical control. July 1986. 368 p. \$25.00. Order from ISBS, 5602 NE Hassalo St., Portland, OR 97213-3640. Tel.: (503) 287-3093.

\*Order from Superintendent of Documents, U.S. Government Printing Office, Washington, D.C. 20402. Tel.: (202) 783-3238.

**\*\*Order from National Technical Information Service, Identification Section, 5285 Port Royal Road, Springfield, VA 22161. Tel.: (703) 487-4780. All titles listed are available in microfiche for \$6.50 each.**

**\*\*\*Order from the Oryx Press, 2214 N. Central an Encanto, Phoenix, AZ 85004-1483. Tel.: (800) 457-ORYX.** 

## BOOK LOVERS

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Kathleen Dougherty - 344-3999

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## SERIAL GAPS

As part of the National Agricultural Library's collection maintenance activities and through patron requests, gaps in the national collection are identified. We appreciate your donation of these items to complete our collection. If you have questions regarding the program, call Susan Fugate, Leader, Gift and Exchange Program, (301) 344-2904.

Send items to:

National Agricultural Library  
Gift and Exchange Program  
Room 112G  
Beltsville, MD 20705

Annual Report of the Committee on Horticultural Research. The Canadian Horticultural Council. 1961, 1963, 1964, 1971, 1981, 1984.

The Chesapeake Bay Bibliography. Vol. 1, The James River. Virginia Institute of Marine Science. 1971.

Engineering Technical Publications. Nos. 7, 16, 17. University of Guelph, Ontario Agricultural College. School of Engineering, Guelph, Ontario, Canada.

Technical Reports. Nos. 45, 51, 58, 62. University of Guelph, Ontario Agricultural College, School of Engineering, Guelph, Ontario, Canada.

World Congress on Genetics Applied to Livestock Production. Proceedings of the Second Congress and an Interim Conference. Vols. IV - VIII. 1980.

Yen chiu pao kao hui chi (Collected Papers of Veterinary Research). Nos. 1-3, 1975-1977. The Control Institute of Veterinary Biproducts and Pharmaceuticals. Ministry of Agriculture and Forestry. Beijing, People's Republic of China.



## SURPLUS PUBLICATIONS

The following **monographs** are surplus to the needs of the National Agricultural Library's collection. They will be made available to any interested organization that regularly sends free publications to NAL. This includes most Federal, land-grant, and agricultural research institutions as well as many others. Foreign institutions will need to provide a U.S. mailing address or make other special arrangements with U.S. sources for shipment of material. Listed titles can be requested up to 6 weeks following announcement.

If interested, please write to: National Agricultural Library, USDA, Attn: Gift and Exchange, Room 112, Beltsville, MD 20705, or call Susan Fugate, (301) 344-3732.

Farmland Food and the Future. Soil Conservation Society of America. 1979.

Food Aid for Development. Food and Agriculture Organization of the United Nations. 1985.

Landlessness: A Growing Problem. Food and Agriculture Organization of the United Nations. 1984.

Report of the FAO World Conference on Fisheries Management and Development. Food and Agriculture Organization of the United Nations. 1984.

Soil Conservation Policies: An Assessment. Soil Conservation Society of America. 1979.

Training for Agriculture and Rural Development. Food and Agriculture Organization of the United Nations. 1983.

Training for Agriculture and Rural Development. Food and Agriculture Organization of the United Nations. 1984.

World Apparel Fibre Consumption Survey 1985: Per Capita Fibre Consumption and Trade Balances of Yarn and Textile Products in Raw Fibre Terms. Food and Agriculture Organization of the United Nations. 1985.



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#### AGRICULTURE DATEBOOK


March 1-3: CATFISH FARMERS OF AMERICA CONVENTION. Point Clear, AL, Marriott Hotel. Contact: Hugh Parnall, P.O. Box 34, Jackson, MS 39205.

March 1-6: AMERICAN SOCIETY FOR MICROBIOLOGY. Atlanta, GA, Georgia World Congress Center. Contact: American Soc. for Microbiology, 1913 Eye St., N.W., Washington, D.C.

March 22-27: SOIL AND WATER CONSERVATION ON STEEP LANDS. San Juan, Puerto Rico. Contact: Soil Conservation Society of America, 7515 N.E. Ankeny Road, Ankeny, IA 50021-9764. Tel.: (515) 289-2331.

March 29-April 2: FEDERATION OF AMERICAN SOCIETIES FOR EXPERIMENTAL BIOLOGY. Washington, D.C., Washington Convention Center. Contact: FASEB, 9650 Rockville Pike, Bethesda, MD 20814. Tel.: (301) 530-7010.

March 30-April 1: SOFTWARE/COMPUTER/DATABASE CONFERENCE AND EXPOSITION for Information Managers and Librarians. Arlington, VA, Hyatt Regency Crystal City. Contact: Registration Information, 11 Ferry Lane West, Westport, CT 06880. Tel.: (203) 226-6967.

April 3-4: HYDROPONIC SOCIETY OF AMERICA 8TH ANNUAL CONFERENCE. San Francisco, CA, Airport Marriott Hotel. Contact: Joe O'Brien, Hydroponic Society of America, P. O. Box 6067, Concord, CA. Tel.: (415) 846-8505. 

AGRICULTURAL LIBRARIES INFORMATION NOTES provides a channel of communication to technical information specialists, librarians, extension workers, researchers, and scientists on agricultural information activities. E.M. Farkas, Chief, Education and Information, Maria G. Pisa, Editor, Marilyn M. Jacobs, Assistant Editor, Dan Starr, Photographer. (Tel.: (301) 344-3937.)